

INTELLIGENT 5

CLASSIFICATION CONFIDENTIAL

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INFORMATION REPORT

CD NO.

25X1

49

COUNTRY USSR (Ukrainian SSR)

DATE DISTR. 19 Feb 1952

SUBJECT Stalin KhEMZ Electro-Mechanical Plant and
Kirov KhTGS Turbo-Generator Plant

NO. OF PAGES 2

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NO. OF ENCL. 2
(LISTED BELOW)

DATE OF INFO.

SUPPLEMENT TO
REPORT NO. 25X1X

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1. The two plants were located on a site southeast of Kharkov (50°00'N/36°15'E), Ukrainian SSR, on the highway to Chuguyev. They were connected to the main railroad line by a spur track. The nearest railroad station was Kharkov-Balashov. *
2. The plants were controlled by the Vsesoyuzni Elektricheski Kombinat (All-Union Electrical Combine) (VEK). The Stalin KhEMZ (Kharkovski Elektro-Mekhanicheski Zavod) (Kharkov Electro-Mechanical Plant) was established as early as 1887 and manufactured hydro generators, generators for alternating current, direct-current generators, three-phase generators, low-tension apparatus and switching devices. The Kirov KhTGS (Kharkovski Turbo Generatorni Zavod) (Kharkov Turbo Generator Plant) was founded in 1933 and produced turbo-generators for steam power stations. Part of the generators were destroyed during the war. However, all damage was repaired and the two plants were again in full operation in 1946. In addition some new installations were erected to expand the capacity of the plants.
3. The plants included a department for manufacturing internal combustion engines, one for the manufacture of electrical apparatus, one for turbine construction, two foundries, one forge, one welding shop and various secondary and auxiliary departments. *
4. The following items were produced: Internal combustion engines, especially explosion-proof engines; watertight internal combustion engines for mining purposes; turbo-generators up to 100,000 KW capacity; automatic controls for mine elevators; electric drills for the mineral oil industry; switching devices; and electric power distributing installations. The production of internal combustion engines in 1948 was stated to be as follows: 20,000 internal combustion engines of 100 KW each, 10,000 explosion-proof internal combustion engines, 1,500 internal combustion engines for coal cutting machines, 1,100 electric starters for coal mines. The following articles were delivered in 1946 and 1947: A 50,000 KW and a 100,000 KW turbine for the Suyev (45°01'N/38°17'E) power plant. The construction of high-pressure turbines for the Burnansk, Kiev, Lvov, and Kherson (46°40'N/32°35'E) power stations and an unidentified power station in the Donbas was started in 1948. The stated annual output of the turbo-generator plant was said to be 2 million KW. All sources agreed that the scrap ratio at the plant ranged between 15 and 25 percent.

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No Change in Class.

 Declassified

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5. Sheet iron, iron and steel ingots, section iron, coal, coke, and lumber were supplied by other plants. Large steel castings were received from Kramatorsk ($48^{\circ}43'N/37^{\circ}32'E$). Current was supplied by the nearby power station of Kharkov. Allegedly there was no emergency power station in the plant.

6. The plants had a work force of 10,000 to 13,000 including 30 to 40 percent women. The manager of the KhEMZ Plant was one Shevchenko (fmu), his deputy was one Borisenko (fmu); head of the foundry was one Rosenberg (fmu); manager of the KhEMZ was one Nikitin (fmu); designers were Almasov (fmu), Lazarovich (fmu), and Bespyatkin (fmu). Work was done in three shifts of eight hours each.

2 Annexes: two sketches on ditto.

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Annex 2

Legend:

1. One long building, or a row of uniform two-story buildings closely adjoining one another, with the following sections: Workshop for the manufacture of concrete slabs for floors and roofs; carpenter shop; oil dump; warehouse for cables, wires, insulators, hemp, ropes, bakelite slabs, 80x80 cm and 1 to 4 cm thick; forge and locksmith's shop.
2. Administrative buildings.
3. Bath for workers.
4. Electric motor manufacturing department with a section for shaft treatment; punching shop with 20 to 25 punching machines of different sizes for punching armature bars; pressing shop with three presses; motor case section; armature-winding shop with three winding machines and two paper-cutting machines for insulation material; final assembly of motors; and test station. The armature-winding department and the final assembly shop, which works on an assembly-line system, are in the upper floor. The shop was equipped with: 12 lathes, 4 vertical boring and turning machines; 1 four-spindle boring machine, 4 single-spindle boring machines, 2 milling machines. On the ground floor were four traveling cranes with a lifting capacity of 20 tons each.
5. Motor and generator department. The construction of motor stators was observed there. One source saw, among other machine tools, 10 large and 30 small milling machines in this shop. The shop was equipped with several belt conveyors, 2 or 3 electrically driven cranes, and numerous crane trolleys.
6. Electrical apparatus department. The building consisted of a four-story and a two-story section. The PW Camp was also located there.
7. Warehouse for finished articles, machine tools, and components.
8. Locomotive shed.
9. Carpentry and pattern shop.
10. Forge with one large and one small pneumatic hammer, several presses, two small and two large gas-fired annealing furnaces.
11. Plant kitchen.
12. Kirov turbine plant. The shop, which was 26 meters high, consisted of three longitudinal and one transverse bays with a total floor space of 29,960 square meters. The ground floor accommodated the turbine assembly shop and machine shops equipped with various machine tools, among which were two large vertical boring and turning mills and 50 to 60 lathes, drilling, grinding, and milling machines. In the upper story were other machine shops for the manufacture of components. Soviets said that the largest turbine in the world was built in this plant in 1947.
13. Insulating materials section. Asbestos slabs for insulating switch casings were made there.
14. Forge of the turbine plant, a new structure.

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Annex 1

15. Varnish and paint factory.
16. Nonferrous metal foundry, equipped with three coal-fired furnaces. Copper and aluminum parts were cast there.
17. Iron and steel foundry, equipped with two large coke-fired furnaces for gray iron and steel castings. The molding shop was also located in this building.
18. Welding and sheet-iron processing shop.
19. Garage.
20. Main entrance and guard.
21. Boiler house.

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Location Sketch of Plants



Legend:

- 1 KhEmZ and KhTGZ Plants
- 2 Hospital
- 3 Kharkov-Balashov railroad station

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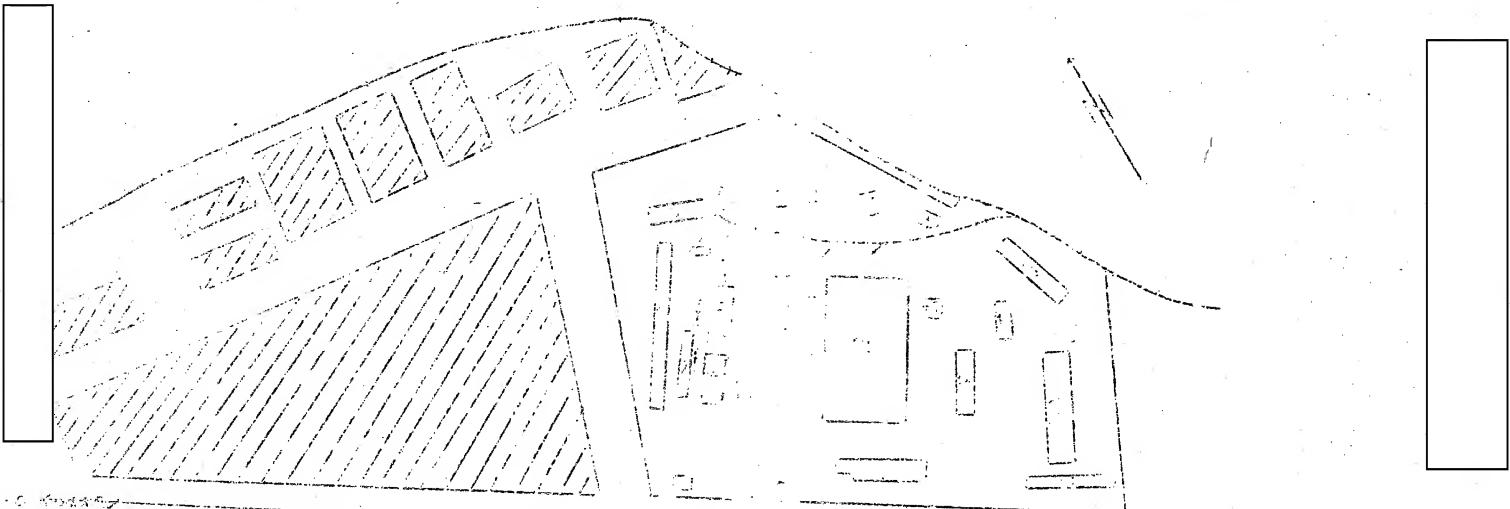
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Layout Sketch of TEZ and KhTGZ Plants

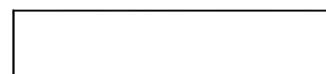
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